CIVIL-TECH CONSULTANTS AND ENGINEERS

An ISO 9001:2008 Certified Company
(Building, Geo-Tech & High way Material Testing Research Laboratory)
Engineering Project Consultants

JAS-ANZ
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ISO 9001 REGISTERED

ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	13	13	100%
TOTAL	**13**	**13**	**100%**

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Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79. Tele fax : 23223227, Cell : 93428 39190

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c)Aggregate 40MM d)Aggregate 20MM e) M-Sand(Plastering)	28.28	Cum	5	5	100%
2) Blocks-400mmx200mmx200mm	81	Sq m	2	2	100%
3) M20 Cube	22.62	Cum	6	6	100%
TOTAL			**13**	**13**	**100%**

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Job No.: CTCE/BBMP/NK/W.No.13/CSR-238/CEMENT/2023-24 Date: 13.10.2023

TEST REPORT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
*** Name of Work**	:	Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	EE/DD/W.O/93/2023-24 Dated:29.05.2023
*** Sample ID**	:	Cement
Sample Received on	:	11.10.2023
Period of Testing	:	11.10.2023 to 13.10.2023
Report Issue Date	:	13.10.2023

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.50%	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	365 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Pooja K.L

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Job No.: CTCE/BBMP/NK/W.No.13/CSR-238/SAND-Gradation/2023-24 13.10.2023

TEST REPORT SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
* Name of Work	: Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/93/2023-24 Dated:29.05.2023
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	: 11.10.2023
Date of Testing	: 13.10.2023
Report Issue Date	: 13.10.2023

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	56.60	30-70	55-90	75-100	90-100
600 Micron	38.60	15-34	35-59	60-79	80-100
300 Micron	12.60	5-20	8-30	12-40	15-50
150 Micron	2.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/NK/W.No.13/CSR-238/AGG/GR/2023-24

13.10.2023

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
* Name of Work	:	Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/93/2023-24 Dated:29.05.2023
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received on	:	11.10.2023
Date of Testing	:	13.10.2023
Report Issue Date	:	13.10.2023

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.04	95-100	85-100
20	41.26	30-70	0-20
10	18.00	10-35	0-5
4.75	1.10	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
* Name of Work	: Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/93/2023-24 Dated:29.05.2023
* Sample ID	: Coarse Aggregates (20mm)
Test Method As Per	: IS - 2386 (Part 1) : 1963(RA-2021)
Sample Received on	: 11.10.2023
Date of Testing	: 13.10.2023
Report Issue Date	: 13.10.2023

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	92.70	90-100	85-100
10	35.42	25-55	0-20
4.75	2.32	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.:CTCE/BBMP/NK/W.No.13/CSR-238/CUBE/2023-24 13.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
* Name of the work	:	Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/93/2023-24 Dated:29.05.2023
* Sample ID	:	Cement Concrete
Technical Reference	:	IS 516 : Part 1 : Sec 1 : 2021
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.11.2023
Report Issue Date	:	13.11.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2023	13.11.2023	8.125	485.9	21.60
2	16.10.2023	13.11.2023	8.298	475.2	21.12
3	16.10.2023	13.11.2023	8.136	496.2	22.05

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Technical Reference	:	IS 516 : Part 1 : Sec 1 : 2021
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.11.2023
Report Issue Date	:	13.11.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2023	13.11.2023	8.215	498.6	22.16
2	16.10.2023	13.11.2023	8.127	492.9	21.91
3	16.10.2023	13.11.2023	8.139	505.4	22.46

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Job No.:CTCE/BBMP/NK/W.No.13/CSR-238/CUBE/2023-24 16.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Sample ID	:	Cement Concrete
Technical Reference	:	IS 516 : Part 1 : Sec 1 : 2021
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.11.2023
Report Issue Date	:	16.11.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.10.2023	16.11.2023	8.124	491.2	21.83
2	19.10.2023	16.11.2023	8.217	498.9	22.17
3	19.10.2023	16.11.2023	8.329	506.8	22.52

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Technical Reference	:	IS 516 : Part 1 : Sec 1 : 2021
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.11.2023
Report Issue Date	:	16.11.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.10.2023	16.11.2023	8.120	498.1	22.14
2	19.10.2023	16.11.2023	8.315	495.6	22.03
3	19.10.2023	16.11.2023	8.219	530.2	23.56

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Technical Reference	:	IS 516 : Part 1 : Sec 1 : 2021
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.11.2023
Report Issue Date	:	18.11.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2023	18.11.2023	8.318	495.9	22.04
2	21.10.2023	18.11.2023	8.123	497.7	22.12
3	21.10.2023	18.11.2023	8.211	525.4	23.35

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* Name of the work	: Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/93/2023-24 Dated:29.05.2023
* Sample ID	: Cement Concrete
Technical Reference	: IS 516 : Part 1 : Sec 1 : 2021
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 18.11.2023
Report Issue Date	: 18.11.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2023	18.11.2023	8.299	496.2	22.05
2	21.10.2023	18.11.2023	8.196	487.9	21.68
3	21.10.2023	18.11.2023	8.241	515.3	22.90

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Pooja K.L

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Job No.: CTCE/BBMP/NK/W.No.13/CSR-238/CC Solid Block/2023-24

14.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
* Name of Work	:	Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/93/2023-24 Dated:29.05.2023
Test Method As Per	:	IS: 2185 (Part-1) : 2005 (RA-2020)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	12.10.2023
Date of Testing	:	14.10.2023
Report Issue Date	:	14.10.2023

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2020)
1	Block 1	36.99	414.5	5.18	Minimum required Compressive Strength of Individual Units 5.00 N/mm^2
2	Block 2	35.48	410.3	5.13	
3	Block 3	36.15	416.9	5.21	
4	Block 4	35.25	420.3	5.25	
5	Block 5	36.80	421.9	5.27	
6	Block 6	36.49	416.1	5.20	
7	Block 7	34.23	425.6	5.32	
8	Block 8	35.81	418.2	5.23	

*Information is furnished by the Customer/Representative.

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Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/NK/W.No.13/CSR-238/CC Solid Block/2022-23 14.10.2023

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
* Name of Work	:	Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/93/2023-24 Dated:29.05.2023
Test Method as per		IS - 2185 (Part-1) : 2005 (RA-2020)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	03
Sample Received on	:	12.10.2023
Date of Testing	:	14.10.2023
Report Issue Date	:	14.10.2023

Sl.No.	Size of Block in mm	Density in Kg/m^3	Average Density Kg/m^3	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2020)
1	400x200X200	2208.400	2201.03	1800 kg/m^3
2	400x200X200	2268.900		
3	400x200X200	2125.800		

*Information is furnished by the Customer/Representative.

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/NK/W.No.13/CSR-238/SAND-Gradation/2023-24

13.11.2023

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.Kemparaju,** Narasappa No.2148/A, 3rd Main Road, 5th Cross, Near Government PU College RPC Layout, Hampinagar, Vijayanagara, Bangalore-560040.
* Name of Work	:	Comprehensive development works in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/93/2023-24 Dated:29.05.2023
*Sample ID	:	Sand For Plastering
Test Method As Per	:	IS - 1542 : 1992 (RA-2019)
Sample Received on	:	11.11.2023
Date of Testing	:	13.11.2023
Report Issue Date	:	13.11.2023

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.20	95-100
2.36	97.10	95-100
1.18	94.20	90-100
600 Micron	87.70	80-100
300 Micron	42.50	20-65
150 Micron	7.00	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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